

HRSG Cleaning

MPW provides specialty Heat Recovery Steam Generator (HRSG) cleaning to restore operational efficiency by reducing gas-side pressure drops. Gas-side cleaning reduces fuel consumption and increases steam flow. MPW uses high pressure, high volume waterblasting to remove gas-side deposit build-up through the entire depth of the fin tube banks without damaging fin surfaces.

Periodically maintaining fin tube cleanliness is essential to transfer heat properly and to protect the tubes from overheating. Build-up can occur rapidly, especially when firing fuel oil. MPW works with HRSG operations personnel to determine the frequency of cleaning by monitoring the gas-side pressure drops in the HRSG.

MPW cleans the HRSG manually or mechanically to restore the unit's pressure drop, in many cases, achieving design specifications. Manual cleaning entails entering the unit and cleaning the tubes with short waterblast guns, which allows for visual inspection during the cleaning process. Manual cleaning requires scaffolding to provide access to the area to be cleaned. Mechanical cleaning involves proprietary tooling controlled by positioning devices. Since this method does not require scaffolding, it is a faster and safer cleaning method due to minimal labor involvement inside the duct work.

MPW removes the cleaning effluent from the ducts by draining and vacuuming it into storage tanks for manageable disposal. MPW reduces water volume required and disposal charges by ensuring that the tube banks are cleaned with the appropriate balance of water volume and pressure, thereby minimizing effluent. Where necessary, such as at zero discharge sites, MPW can provide secondary containment berms to control effluent.

MPW provides additional services to support the operation of HRSGs including chemical cleaning and high purity water. MPW's chemical experts perform pre-commissioning services and operational cleaning. MPW cleans tube internals and drums in addition to controlling corrosion of fin tube externals. Water treatment experts provide high purity deionized boiler feed water on an emergency or long-term basis.



In addition to waterblasting services, MPW administers chemical cleaning and high purity deionized water to maintain efficient HRSG operation.

Before



After



MPW's high pressure, high volume waterblasting restores the fin tube externals to their design operational specifications by removing build-up including rust and residual fuel.

Contact your local MPW Representative today for more information on MPW's HRSG Cleaning capabilities.